



2003 Small Arms Symposium & Exhibition

PM-SW Update

Joint Service Small Arms Program
Management Committee

12 May 2003

PEO SOLDIER

Activated 7 June 2002

Colonel (P) Jamey Moran
Program Executive Officer
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PM Soldier Weapons

Activated 2 August 2002

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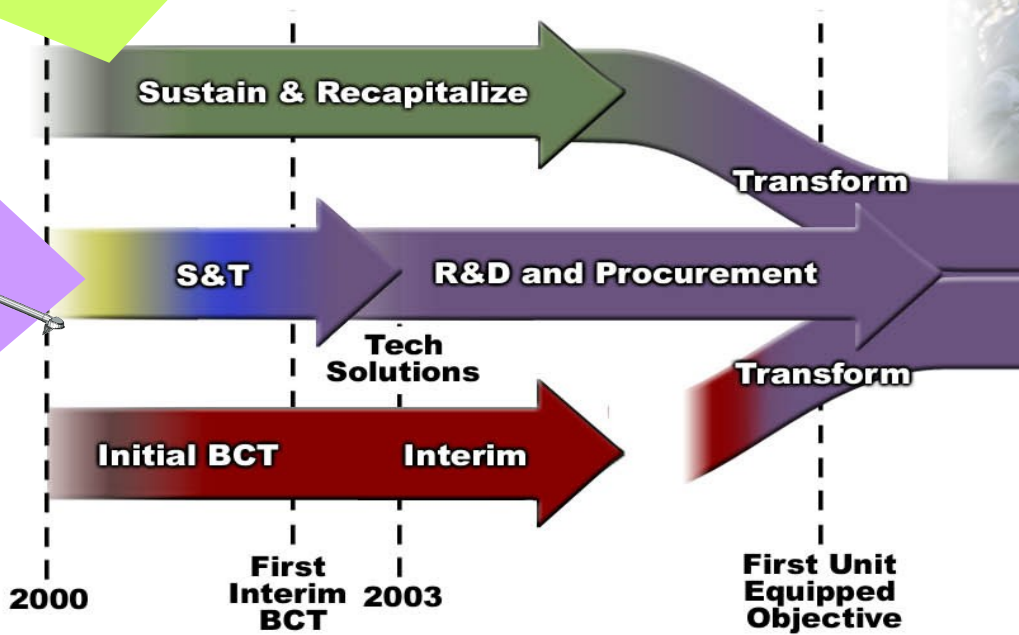
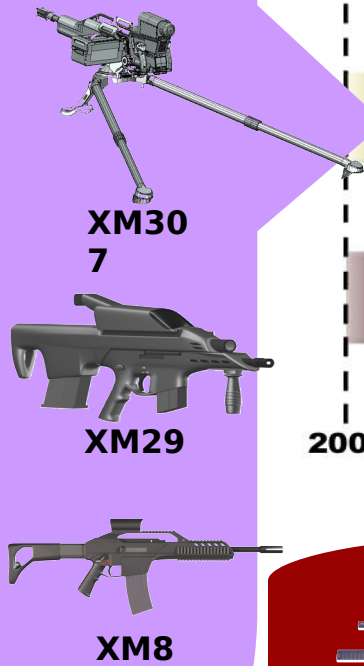
Soldier Weapons Road Map



Current Force



Objective Force



Interim Force



Responsive

Deployable

Agile

Versatile

Lethal

Survivable

OBJECTIVE



Soldier Weapons Today and Tomorrow



Individual

CIRCA (1963)

**M4
CARBINE
M16A4
RIFLE**



M16/M203

Individual Weapons

**25mm Ammo
High & Low
Velocity**

- Airburst
- Armor Piercing
- Thermobaric



40mm Ammo



Crew Served

CIRCA (1933)

**MK 19 Grenade
Machine Gun**



**M2 .50 CAL
Machine gun**



Crew Served Weapons

XM8 Carbine



**XM320
40mm Grenade Launcher**



**XM25
Air Burst Weapon**



**XM29 Integrated
Airburst Weapon System**



**XM307 25mm
Advanced Crew
Served Weapon**



**XM312 Cal .50
Advanced Crew
Served Weapon**





PM Soldier Weapons Programs List



RDT&E PROGRAMS

1. XM29
2. XM307
3. XM107, Semi Automatic Long Range Sniper Rifle
4. Combat Ammo Pack (CAP) for the M240B
5. Grenade Launcher Rail System for M203
6. Collapsible Buttstock for M249 Machine Gun
7. 9mm Pistol Rail system for M9
8. Accessory Shotgun
9. Future Combat Rifle
10. CROWS, Remote Mount
11. XM192, Light Weight Ground Mount for MG
12. Bipod Handguard for the M249
13. Barrel Life Extension for the M249
14. Weight Reduction Program for M240B
15. Multi Purpose Optic (MPO)
16. M240E5, 7.62mm MG (Aviation Version)
17. XM1022, Long Range Tactical Sniper Cartridge
18. XM1041/XM1042 Close Combat Mission Capability Kit
19. XM102 Reloadable Fuze for M84
20. Hand Thrown Sting Ball Grenade
21. 12 Gauge Extended Range Non Lethal Cartridge
22. XM1037, Short Range Training Round for M249
23. DUD Reducing 40MM M430A1
24. XM1060 40mm Multipurpose Cartridge

*Multiple programs funded under this line

PRODUCTION PROGRAMS

25. M240B, 7.62 Medium Machine Gun
26. M240 Mod Line*
27. M16A4 Rifle
28. M16A4 Mod Line*
29. M4 Carbine
30. M4 Mod Line*
31. M249 SAW
32. M249 Mod Line*
33. MK19
34. MK19 MOD Line*
35. Sniper Accessory Kit
36. Soldier Enhancement Program*
37. Mods Less Than \$5M*
38. Machine Gun Optics
39. Stabilized Bino

CUSTOMER AMMO PRODUCTION PROGRAMS

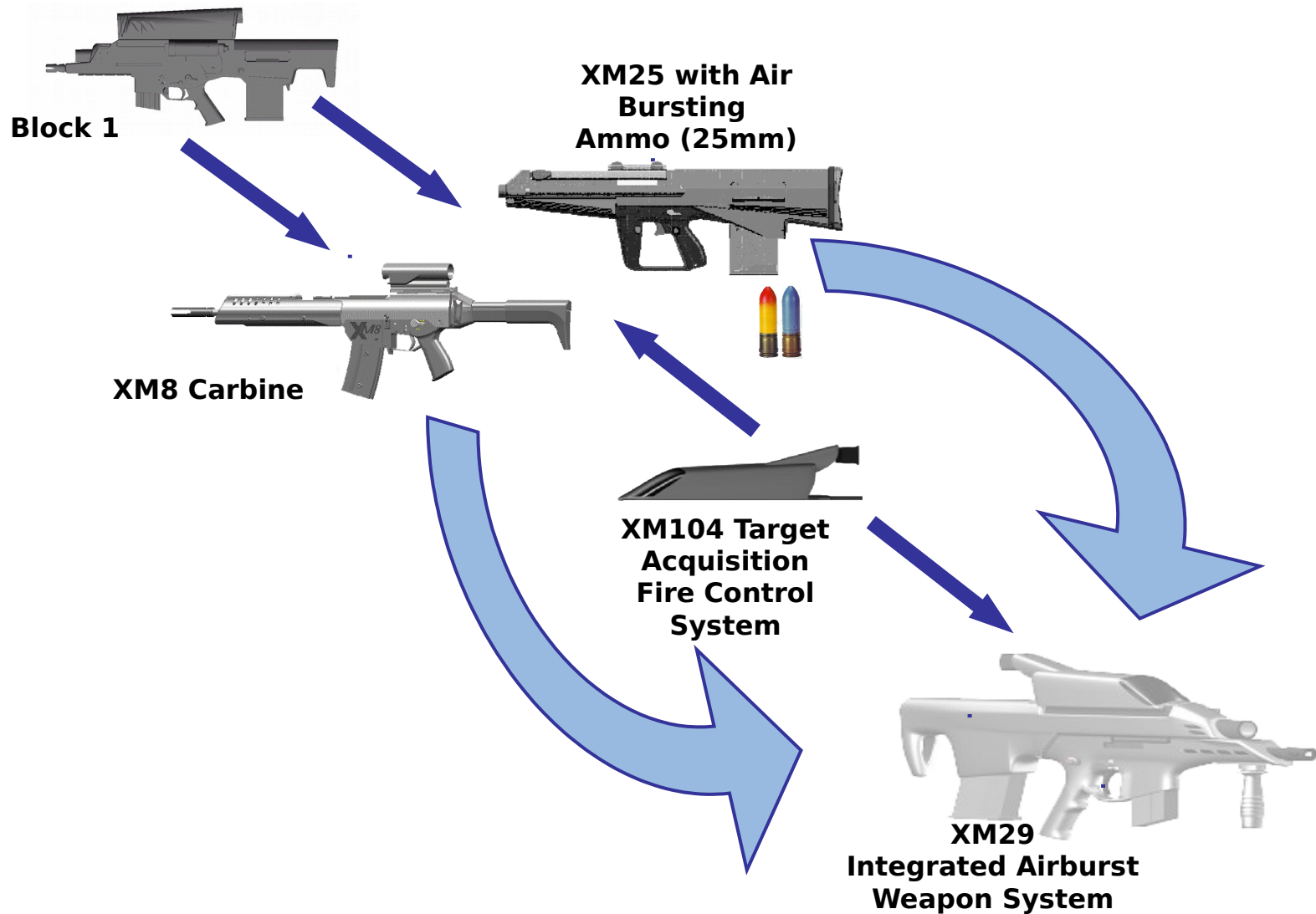
M995, 5.56mm Armor Piercing
M993, 7.62mm Armor Piercing

M84 Stun Grenade
M903/M962 Cal .50 SLAP/SLAPT
M1012/M1013, 12 Gauge NL Point and Crowd Control
M973/M974 7.2 Short Range Training Ammo
M1001, 40mm Canister Round

M67 Frag Hand Grenade PIP for EM Fuze
Enhanced Pyro (EP) Fuze for M67 Hand Grenade

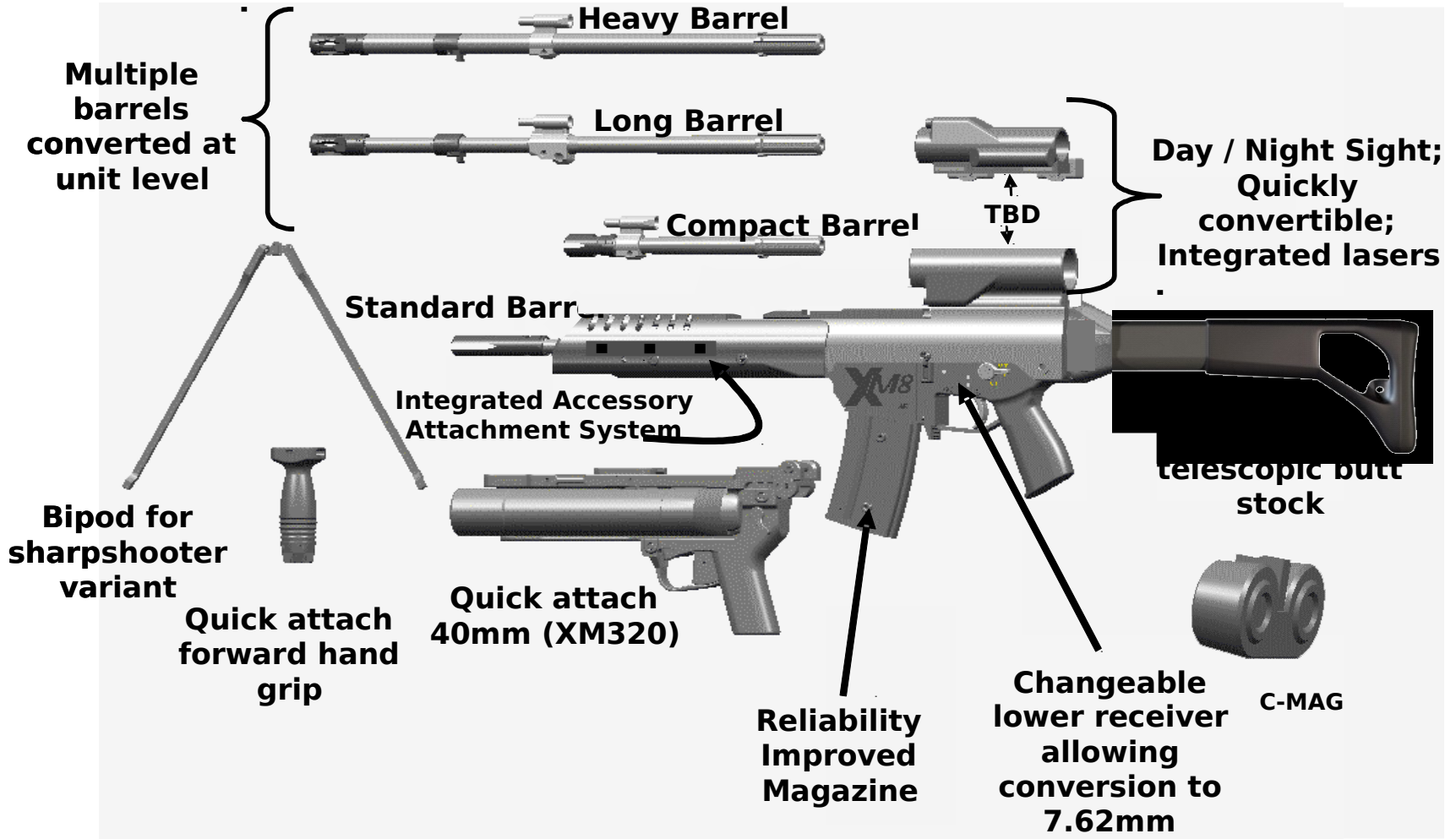


XM29 Spiral Development





XM8 Future Combat Rifle



Modularity/Reliability/Lethality in a Lighter Package



Advanced Crew Served Weapon



XM307



XM312



Kit Change
at
Unit Level
(6 Parts)

- Supports FCS Block 1 Defensive Armaments
- 25mm Munitions
 - Air-bursting Munitions Defeats Defilade Targets
 - Armor Piercing Munitions Defeats Light Armor
- Day/Night/All Weather Capable Fire Control

- Supports FCS Field Evaluation
- Supports Stryker BCT Fieldings
- XM312 is a Direct Replacement For 86 Year M2
- Accelerated Program Possible w/Funding
 - Delivers Start in 12 mo - 50 Wpns in 18 mo
 - Full-rate Production Line In 24 mo

- One Weapon Replaces Two Weapons - M2 & MK19
- Dual Feed Capability
- Light Weight
 - Can be Dismounted from Platform
 - 2-man Portable (50.3 lbs) vice 128 lb M2 or 144 lb MK19
- System Dispersion 1.5 mil
- No Headspace or Timing Adjustments
- Maximum Commonality between XM307 and XM312
- Minimized Future Logistic Impact
- Capable of Remote Operations

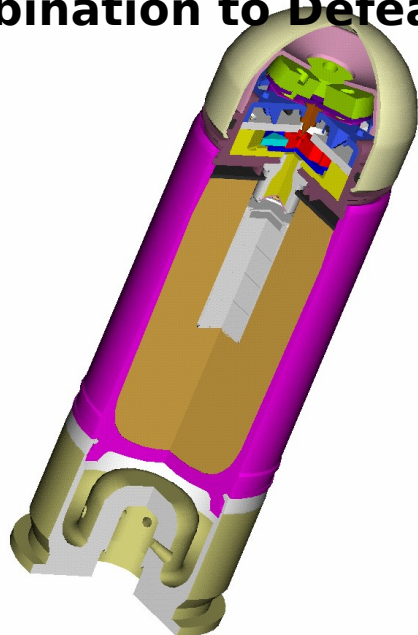
Shoots/Handles/Maintains Like A Light Machine Gun



XM1060 Thermobaric Cartridge



- **Technology/Utility of Thermobarics Demonstrated**
- **Munitions Have Agility to Defeat a Range of Targets**
- **Pressure and Light Output Used in Combination to Defeat Enemy Vulnerabilities**



Operational Use

**Similar to M433 HEDP
Common Warnings Apply**



Rapid Fielding Initiatives(RFI) Lethality



Close Combat Optic

M4/M16 Magazine

**C-MORE
Var Power 1- 5X Scope**

M122/A1 Tripod



**Advanced Combat
Optical Gunsight 4X
(ACOG)**

Mini Binoculars

**M249/M240
Belt**

M145 MG Optic



Flashlight

Multi-tool

**Soft Ammo Bags
for M249/M240B**

Lightweight Shotgun System (LSS)



Future Programs



- FY05 Soldier Enhancement Program (SEP) Cycle:
 - **The SEP cycle begins in mid summer. It is a key process through which enhancements and new systems can be provided to the soldier rapidly. Input to this process from all areas is critical to provide the soldiers with the items that they need.**
- Technological Areas of Interest
 - **Micro Electro Mechanical Systems**
 - **Electronic Fuzing**
 - **High Energy Explosives (Thermobaric, NANO)**
 - **Lightweight, High Strength Materials (Weapons and Ammo)**
 - **Lightweight Direct View Optics**
 - **Maneuverable Projectiles**
 - **Advanced Non-Lethal Mechanisms**
 - **Directed Energy**



“When the smoke cleared away, it was the man with the sword, or the crossbow, or the rifle who settled the final issue on the field.”

George C. Marshall

Questions?

